

File ACT/027/006

CONTINENTAL LIME INC.

LIMESTONE QUARRY  
CRICKET MOUNTAINS  
MILLARD COUNTY, UTAH

RECEIVED

JUN 22 1981

DIVISION OF  
OIL, GAS & MINING

PLAN OF OPERATIONS

May 27, 1981



## I. INTRODUCTION

Continental Lime Inc. operates a limestone quarry in the Cricket Mountains in Millard County, Utah. The operations are conducted on unpatented mining claims and were being conducted on January 1, 1981. The following information relating to said operations is submitted in conformity with 43 CFR 3809.1-8. For ease of reference, the information herein is grouped according to the regulations in 43 CFR 3809.

## II. PLAN OF OPERATIONS

### A. Name and Address of Operator (43 CFR 3809.1-5(c)(1)).

The name and address of the operator of the quarry is:

Continental Lime Inc.  
268 West 400 South  
Salt Lake City, Utah 84101

### B. Map (43 CFR 3809.1-5(c)(2)).

A map showing existing routes of access (exclusive of Right-of-Way Serial No. U-43199) and the size of each area of surface disturbance is attached hereto as Exhibit "A" and by this reference is made a part hereof. The area shaded in blue on the map shows existing haul roads, with a surface disturbance of less than five acres. The area shaded in pink on the map shows working quarry benches, with a surface



disturbance of less than seven acres. The area shaded in yellow on the map shows the crushing plant and stockpiles, with a surface disturbance of less than four acres.

C. Mining Claims (43 CFR 3809.1-5(c)(3)).

A description of the unpatented mining claims on which the quarry is situated is attached hereto as Exhibit "B" and by this reference is made a part hereof.

D. Description of the Operations (43 CFR 3809.1-5(c)(4)).

Quarry operations are carried out in benching fashion using a drill and blast procedure to produce quarry run sized limestone. The limestone material is then loaded into haul trucks with a rubber tired loader for transportation from the working face to the crushing and screening plant for sizing.

The crushing facilities are situated at the quarry and consist of a single impact crusher capable of 100% reduction to minus 6" in the first pass. Stone removed from the quarry is crushed in the impact crusher at a rate of approximately 360 tons per hour. The crushed stone is then screened on a three-deck screen. The plus 2" stone is segregated and returned to the crusher. The minus 3/8" fines is stockpiled



at the quarry for utilization if markets become available. The stone screened to  $-2" + 3/8"$  is loaded into trucks and transferred to the plant site for kiln feed at a projected rate of 1200 tons per day.

The projected life of the quarry operation based on a proven reserve of 24 million tons is between thirty and forty years. The actual life of the operation is governed by market conditions.

All mining is conducted so as to comply with applicable rules, regulations, and laws, including the Utah Mined Land Reclamation Act.

E. Reclamation (43 CFR 3809.1-5(c)(5)).

1. Access Routes (43 CFR 3809.1-3(d)(1)).

As shown on Exhibit "A", access routes to the quarry are for only the minimum width needed for operations. The access routes follow natural contours, where practicable.

2. Dumps (43 CFR 3809.1-3(d)(2)).

All waste rock and other waste is disposed of so as to prevent unnecessary or undue degradation in compliance with applicable federal or state laws and regulations.

3. Time of Reclamation (43 CFR 3809.1-3(d)(3)).

The area will be reclaimed at the earliest feasible



time as specified in Section II.E.4 below.

4. Reclamation of Disturbed Areas (43 CFR 3809.1-3 (d)(4)).

The proposed area to be mined in the first ten years of operations contains little or no soil. The area that contains a small amount of soil is the portion of land occupied by the crushing plant and the first section of the quarry haul road.

Ground cover in the area consists of medium stiff to stiff brown silty clays which contain in zones of varying amounts of sands and gravels. The silty clays are slightly to moderately moisture sensitive which render them collapsible to varying degrees.

Because of the relatively sparse vegetation, major roots and topsoil are localized and generally no more than a few inches thick.

Continental Lime Inc. will embark on a program to establish test plots to determine revegetation factors with the aid of the Division of Oil, Gas, and Mining. Due to the lack of ground cover, the exact timing for these test plots will be determined as the soil is available.

Appropriate measures, such as fencing of reclaimed areas, will be undertaken to prevent interference with reclamation activities by animals or persons.



Topsoil will be stockpiled in the designated area and the surface of the pile stabilized with vegetation.

Waste from the crushing plant will be stockpiled for future use in a stockpile adjacent to the crushing plant. Dust from the surface of the stockpile will be controlled through the use of chemicals and water.

Overburden will not be encountered during the first ten years of operation.

Erosion and runoff will be controlled through contouring of disturbed areas and revegetation, where practicable.

No toxic materials are produced in the operations. In addition, there are no fisheries or wildlife habitat which are significantly affected by the operations. Therefore, the requirements to remove toxic materials and rehabilitate fisheries and wildlife habitat are not applicable here.

F. Environmental Compliance (43 CFR 3809.2-2)

All operations on the claims will comply with applicable federal and state laws relating to air quality, water quality, solid waste management, wildlife protection, and cultural and paleontological resources protection. In this regard, Continental Lime Inc. has received approval for its operations from the applicable federal and state agencies under the foregoing laws.



G. Protection of Survey Monuments (43 CFR 3809.2-2(f)).

All survey monuments, witness corners, reference monuments, bearing trees and line trees will be protected against unnecessary or undue destruction, obliteration or damage.

If, however, any monuments, corners or accessories are destroyed, obliterated or damaged by the operations on the claims, Continental Lime Inc. will immediately report the matter to the authorized officer.

H. Fire Prevention and Control (43 CFR 3809.3-4).

Continental Lime Inc. will comply with all applicable federal and state fire laws and regulations, and will take all reasonable measures to prevent and suppress fires in the area of operations.

I. Maintenance and Public Safety (43 CFR 3809.3-5).

Continental Lime Inc. will maintain its structures, equipment, and other facilities on the mining claims in a safe and orderly manner. Hazardous sites or conditions resulting from operations on the mining claims will be marked by signs, fences, or otherwise identified in accordance with applicable federal and state laws and regulations.



## EXHIBIT "B"

<u>Claim Name</u>	<u>BLM Serial Number</u>	<u>Date of Location</u>	<u>Date of Recording</u>	<u>Records of Millard County Book/Page</u>
W.S. Nos. 1-11	UMC 74292-74302	1/30/79	2/28/79	132/39-49
W.S. Nos. 12-16	UMC 74303-74307	2/27/79	3/21/79	132/441-445
W.S. Nos. 17-22	UMC 74308-74313	1/31/79	2/28/79	132/50-55
W.S. Nos. 23-25	UMC 74314-74316	3/2/79	3/21/79	132/446-448
W.C. No. 1-4 Amended	UMC 74317-74320	2/28/79 7/10/79	3/21/79 7/10/79	132/438-440 134/569-571
INA 1-72	UMC 230990- 231061	9/19/80	9/23/80	145/341-412
INA 16 Amended	UMC 231005	10/24/80	11/25/80	147/58
INA 36 Amended	UMC 231025	10/24/80	11/25/80	147/59